

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 October 2003 (23.10.2003)

(10) International Publication Number
WO 03/088577 A1

(51) International Patent Classification⁷: **H04L 12/28**, (29/06, H04Q 7/38, H04L 9/32, 12/14)

(21) International Application Number: **PCT/FI02/01033**

(22) International Filing Date: 17 December 2002 (17.12.2002)

(25) Filing Language: Finnish

(26) Publication Language: English

(30) Priority Data: 20020733 16 April 2002 (16.04.2002) FI

(71) Applicant (for all designated States except US): **NOKIA CORPORATION [FI/FI]**; Keilalahdentie 4, FIN-02150 Espoo (FI).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **TUOMI, Jukka [FI/FI]**; Marijatankatu 13, FIN-33730 Tampere (FI). **HAVERINEN, Henry [FI/FI]**; Arkkitehdinkatu 15 A 3, FIN-33720 Tampere (FI). **LYBÄCK, Niklas [FI/FI]**; Ristiniementie 28 F 24, FIN-02320 Espoo (FI). **PIENIMÄKI, Sami [FI/FI]**; Kestilänkuja 3 B 5, FIN-33960 Pirkkala (FI).

(74) Agent: **KOLSTER OY AB**; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

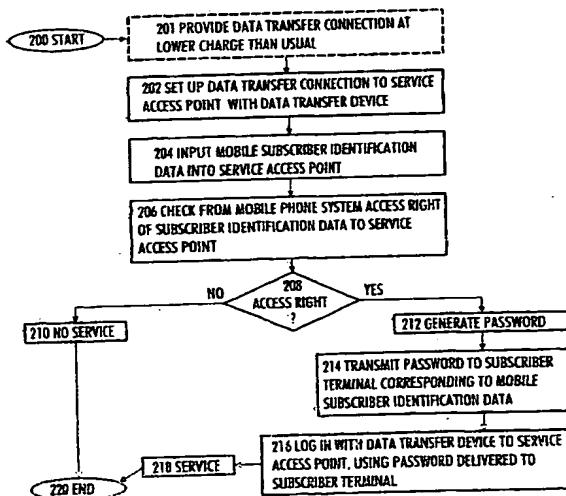
(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR AUTHENTICATING USER OF DATA TRANSFER DEVICE



WO 03/088577 A1

(57) **Abstract:** The invention relates to a method and system for authenticating a user of a data transfer device (such as a terminal in a wireless local area network, i.e. WLAN). The method comprises: setting up (202) a data transfer connection from the data transfer device to a service access point. Next, identification data of the mobile subscriber (for example and MSISDN) are inputted (204) to the service access point. This is followed by checking (206) from the mobile communications system whether the mobile subscriber identification data contains an access right to the service access point. If a valid access right exists, a password is generated (212), then transmitted (214) to a subscriber terminal (for example a GSM mobile phone) corresponding to the mobile subscriber identification data, and login (216) from the data transfer device to the service access point takes place with the password transmitted to the subscriber terminal.



MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ,
VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS,
MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent
(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB,
GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG)

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.